

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate

Number. 2317548

Catalogue Number	20589	
Lot Number	A0471712	

Description Manganese(II) chloride tetrahydrate,99+%,for analysis

CAS Number 13446-34-9
Quality Test/Release Date 08/Apr/2025
Suggested retest date 08/Apr/2030
Country of Origin INDIA
Declaration of Origin synthetic

BSE/TSE

Not directly derived from or manufactured with any animal byproducts in any way

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

	Specifications	Test Value
	Pink	Pink
	Crystalline powder	Crystalline powder
%	>=99.0	99.9
ppm	=<50	=<50
ppm	=<5	2.23
ppm	=<5	2.3
ppm	=<10	3.2
ppm	=<50	7.04
ppm	=<50	4.35
%	=<0.0005 (as O)	0.00025 (as O)
	ppm ppm ppm ppm ppm ppm	Crystalline powder % >=99.0 ppm =<50 ppm =<5 ppm =<5 ppm =<5 ppm =<10 ppm =<50 ppm =<50

Geert Torfs Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.